Montana Pollutant Discharge Elimination System Application

General Permit for Storm Water Discharges Associated with Mining and with Oil and Gas Activities

Discharge Information, Part II

Please return to: ***Department of Environmental Quality***
Water Protection Bureau
Storm Water Program
PO Box 200901
Helena MT 59620-0901

1. OUTFALL LOCATIONS

For each outfall, list latitude and longitude to the nearest 15 seconds and the name of the receiving waters								
Outfall Number	Latitude			Longitude				Receiving Surface Waters (name)
001								
002								
003								
004								
005								

2. Discharge Information

Pollutant	Outfall Number					Number of Storm Events Sampled
	001	002	003	004	005	
Estimated Flow Rate						
Oil & Grease (mg/l)						
Biological Oxygen Demand (mg/l)						
Chemical Oxygen Demand (mg/l)						
Total Suspended Solids (mg/l)						
Total Kjeldahl Nitrogen (mg/l)						
Nitrate plus Nitrite Nitrogen (mg/l)						
Total Phosphorus (mg/l)						
pH (SU)						

See Table 2 for nonconventional, toxic, and hazardous substances that may be present at facility or site.

3. SITE DRAINAGE MAP

Please attach a site map showing topography (or indicating the outline of drainage areas served by the outfalls covered in the application if a topographical map is unavailable) depicting the facility including:

- The drainage area of each storm water outfall;
- Paved areas and buildings within the drainage area of each storm water, each known past or present areas used for outdoor storage or disposal of significant materials;
- Each existing structural control measure to reduce pollutants in storm water runoff;
- Material loading and access areas; and
- Springs and other surface water bodies receiving storm water discharges from the facility.

4. Description of pollutant sources

Outfall Number	Impervious Area	Area Drained	Estimated Flow	Pollutants of Concern (See Table II)	Engineered Structures or Management Practices Used to Control Pollutants (See Table I)
001					
002					
003					
004					
005					

5. Nonstormwater Discharges

"I certify under penalty of law that the outfall(s) covered by this application have been tested or evaluated for the presence of nonstormwater discharges, and that all stormwater discharges from these outfall(s) are identified in this application."

Name and Official Title *(Type or print)*	Signature	Date Signed

Please describe testing or evaluation procedures used to determine nonstormwater discharges:

_____
_____
_____
_____
_____
_____

6. Significant spills and leaks

Please provide information regarding the history of significant spills and leaks of toxic or hazardous pollutants at the facility within the past three years, including approximate date, location, and type and amount of material released. *If none, skip to #7 below.*

_____
_____
_____

_____
_____
_____

7. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute of chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last three years? *If yes, list the pollutants below, if no skip to #8 below.*

_____
_____
_____
_____
_____
_____

8. Certification

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment for knowing violations."

_____

Print name of operator or authorized representative Title

_____

Signature Date

Additional Discharge Information

Table 2: Nonconventional, toxic, and hazardous pollutants of concern that may be present at your facility. See Table II for listings.

Pollutant and CAS Number (if available)	Maximum Value mg/l		Average Values mg/l		Number of Storm Events Sampled	Sources of Pollution
	Grab Sample	Flow-weighted Composite	Grab Sample	Flow-weighted Composite		

Table I
Codes for Treatment Units

Physical Treatment Processes

1-A	Erosion Matting/Mulching	1-M	Grit Removal
1-B	Soft Armor	1-N	Erosion Seeding
1-C	Vegetated Buffer Strip	1-O	Inlet/Outlet Protection
1-D	Bush Barrier	1-P	Interceptor Dike and Swale
1-E	Oil/Water Separation	1-Q	Multimedia Filters
1-F	Evaporation	1-R	Rapid Sand Filters
1-G	Flocculation	1-S	Check Dams
1-H	Straw Bale Barrier	1-T	Screening
1-I	Gravel Filter Berms	1-U	Sedimentation (Setting)
1-J	Hard Armor	1-V	Slow Sand Filtration
1-K	Filter Fabric Fence Filtration	1-W	Other

Chemical Treatment Process

2-A	Carbon Absorption	2-G	Disinfection (Ozone)
2-B	Chemical Oxidation	2-H	Disinfection (Other)
2-C	Chemical Precipitation	2-I	Electrochemical Treatment
2-D	Coagulation	2-J	Ion Exchange
2-E	Dechlorination	2-K	Neutralization
2-F	Disinfection (Chlorine)	2-L	Reduction

Biological Treatment Processes

3-A	Activated Sludge	3- F	Pre-aeration
3-B	Aerated Lagoons	3- G	Spray Irrigation/Land Application
3-C	Anaerobic Treatment	3- H	Stabilization Ponds/Detention structures
3-D	Permanent Pool Detention Facility	- I	Trickling Filters
3-E	Constructed Wetlands	3-J	Vegetated Swale

Other Processes

4-A	Discharge to Surface Waters	4-B	Infiltration Structures

Table II
Pollutants of Concern

Conventional/Nonconventional Pollutants

Bromide	Chlorine, Total Residual	Color	Fecal Coliform
Fluoride	Nitrate-Nitrite	Nitrogen, Total Organic	Oil and Grease
Phosphorus, total	Radioactivity	Sulfate	Sulfite
Surfactants	Aluminum, total	Barium, total	Boron, total
Cobalt, total	Iron, total	Magnesium, total	Molybdenum, total
Manganese, total	Tin, total	Titanium, total	

Toxic Pollutants

Toxic Pollutants and Total Phenol

Antimony, total	Arsenic, total	Beryllium, total	Cadmium, total
Chromium, total	Copper, total	Lead, total	Mercury, total
Nickel, total	Selenium, total	Silver, total	Thallium, total
Zinc, total	Cyanide, total	Phenols, total	

GC/MS Fraction Volatiles Compounds

Acrolein	Acrylonitrile	Benzene	Bromoform
Carbon Tetrachloride	Chlorobenzene	Chlorodibromomethane	Chloroethane
2-Chloroethylvinyl Ether	Chloroform	Dichlorobromomethane	1,1 Dichloroethane
1,2 Dichloroethane	1,1Dichloroethylene	1,2Dichloropropane 1,3Dichloropropylene	
Ethylbenzene	Methyl Bromide	Methyl Chloride	Methylene Chloride
1,1,2,2Tetrachloroethane	Tetrachloroethylene	Toulene	1,2Trans-Dichloroethylene
1,1,1Trichloroethane	1,1,2Trichloroethane	Trichloroethylene	Vinyl Chloride

Acid Compounds

2Chlorophenol	2,4Dichlorophenol	2,4Dimethylphenol	4,6Dinitro-O-Cresol
2,4 Dinitrophenol	2Nitrophenol	4Nitrophenol	p-Chloro-M-Cresol
Pentachlorophenol	Phenol	2,4,6Trichlorophenol	2methyl-4,6dinitrophenol

Base/Neutral

Acenaphthene	Acenaphthylene	Anthracene	Benzidine
Benzo(a)anthracene	Benzo(a)pryene	3,4Benzofluranthene Benzo(ghi)perylene	
Benzo(k)fluoranthene	Bis(2chloroethoxy)methane	Bis(2chlororthyl)ether Bis(2chloroisopropyl)ether	

Bis(2ethylyhexyl)phthalate	4Bromophenyl Phenyl Ether	Butylbenzyl Phthalate	
	2Chloronaphthalene		
4Chlorophenyl Phenyl Ether	Chrysene	Dibenzo(a,h)anthracene	
	1,2Dichlorobenzene		
1,3Dichlorobenzene	1,4Dichlorobenzene	3,3Dichlorobenzidine	Diethyl Phthalate
Dimethyl Phthalate	Di-N-Butyl Phthalate	2,4Dinitrotoluene	2,6Dinitrotoluene
Di-N-Octylphthalate	1,2Diphenylhydrazine	Fluroanthene	Fluorene
Hexachlorobenezene	Hexachlorobutadiene	Hexachloroethane	
	Ineno(1,2,3,cd)pyrene		
Isophorone	Napthalene	Nitrobenzene	N-Nitrosodimethylamine
N-Nitrosodi-N-Propylamine	N-Nitrosodiphenylamine	Phenanthrene	Pyrene
1,2,4 Trichlorobenzene			

Pesticides

Aldrin	Alpha-BHC	Beta-BHC	Gamma-BHC
Delta-BHC	Chlordane	4,4 DDT	4,4 DDE
4,4 DDD	Dieldrin	Alpha-Endosulfan	Beta-Endosulfan
Endosulfan Sulfate	Erdin	Endrin Aldehyde	Heptachlor
Heptachlor Epoxide	PCB-1242	PCB-1254	PCB-1221
PCB-1232	PCB-1248	PCB-1260	PCB-1016
Toxaphene			

Hazardous Substances
Toxic pollutant- Asbestos
Hazardous Substances

Acetaldehyde	Allyl alcohol	Allyl chloride	Amyl acetate
Aniline	Benzonitrile	Benzyl chlorie	Butyl acetate
Butylamine	Carbaryl	Carbofuran	Carbon disulfideChlorpyrifos
Coumaphos	Cresol		
	Crotonaldehyde		
Cyclohexane	2,4,D	Diazinon	Diamba
Dichlobenil	Dichlone	2,2Dichloropropionic acid	Dichlorvos
Diethyl amine	Dimethyl amine	Dinitrobenzene	Diquat
Disulfoton	Diuron	Epichlorohydrin	Ethion
Ethylene diamine	Ethylene dibromide	Formaldehyde	Furfural
Guthion	Isoprene	Isopropanolamine	Kelthane
Kepone	Malathion	Mercaptodimethur	Methoxychlor
Methyl mercaptan	Methyl methacrylate	Methyl parathion	Mevinphos
Mexacarbate	Monoethyl amine	Monomethyl amine	Naled
Napthenic acid	Nitrotoluene	Parathion	
	Phenolsulfonate		
Phosgene	Propargite	Propylene oxide	Pyrethrins
Quinoline	Resorcinol	Stronthium	
	Strychnine		
Styrene	2,4,5-T	TDE	2,4,5,-TP
Trichlorfan	Triethylamine	Trimethylamine	Uranium
Vanadium	Vinyl acetate	Xylene	Xylenol